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Safety Data Sheet

 Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Silver(I)sulfate SDS No. : 7067E-3
 Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku,Osaka ,JAPAN Division: Safety Management Dept. of Chemicals Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607 e-mail address: kagakuhinanzenkanri@kishida.co.jp
 Hazards identification

GHS classification and label elements of the product Classification of the substance or mixture ENVIRONMENT HAZARDS Hazardous to the aquatic environment (Acute): Category 1 Hazardous to the aquatic environment (Long-term): Category 1 (Note) GHS classification without description: Not classified/Classification not possible Label elements



Signal word: Warning HAZARD STATEMENT Very toxic to aquatic life Very toxic to aquatic life with long lasting effects PRECAUTIONARY STATEMENT Prevention Avoid release to the environment. Response Collect spillage. Disposal Dispose of contents/container in accordance with local/national regulation.

3. Composition/information on ingredients

Mixture/Substance selection: Substance Ingredient name:Silver(I)sulfate Content (%):99(min) Chemical formula:Ag2O4S Chemicals No, Japan:1-10 CAS No.:10294-26-5 MW:311.80 ECNO:233-653-7 Note : The figures shown above are not the specifications of the product.



4. First-aid measures	
Descriptions of first-aid measures	
IF INHALED	
Remove person to fresh air and keep comfortable for breathing.	
Call a POISON CENTER or doctor/physician if you feel unwell.	
IF ON SKIN (or hair)	
	ke off immediately all contaminated clothing. Rinse skin with water/shower. skin irritation or rash occurs: Get medical advice/attention.
IF IN EYES	
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy	
to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.	
IF SWALLOWED	
Rinse mouth.	
Call a POISON CENTER or doctor/physician if you feel unwell.	
5. Fire-fighting measures	
Extinguishing media	
Suitable extinguishing media	
Use appropriate extinguishing media suitable for surrounding facilities. Unsuitable extinguishing media data is not available.	
Specific hazards arising from the substance or mixture	
Containers may explode when heated.	
Fire may produce irritating, corrosive and/or toxic gases.	
Advice for firefighters	
Specific fire-fighting measures	
Evacuate non-essential personnel to safe area.	
Special protective equipment and precautions for fire-fighters	
Wear fire/flame resistant/retardant clothing.	
Wear protective gloves/protective clothing/eye protection/face protection.	
Firefighters should wear self-contained breathing apparatus with full face peace operated	
positive pressure mode.	
6. Accidental release measures	
Personnel precautions, protective equipment and emergency procedures	
Ventilate area until material pick up is complete.	
Wear proper protective equipment.	
Environmental precautions	
Prevent spills from entering sewers, watercourses or low areas.	
Avoid raising dust.	

Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

Preventive measures for secondary accident

Collect spillage.



7. Handling and storage
Precautions for safe handling
Preventive measures
(Protective measures against fire and explosion)
Keep away from heat/sparks/open flames/hot surfaces No smoking.
(Exhaust/ventilator)
Exhaust/ventilator should be available.
(Safety treatments)
Avoid contact with skin.
Avoid contact with eyes.
Safety Measures
Wear protective gloves, protective clothing or face protection.
When using do not eat, drink or smoke.
Any incompatibilities
See "10.Stability and Reactivity"
Storage
Conditions for safe storage
Keep container tightly closed.
Store in a cool, dry place. Do not store in direct sunlight.
Keep under lock and key.
Block out light.
Container and packaging materials for safe handling
Glass
Polyethylene

8. Exposure controls/personal protection
Control parameters
Exposure controls
Appropriate engineering controls
Do not use in areas without adequate ventilation.
Eye wash station should be available.
Washing facilities should be available.
Individual protection measures
Respiratory protection
Wear respiratory protection.
Hand protection
Wear protective gloves.
Eye protection
Wear eye/face protection.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Crystals or crystalline powder

Color: White

Odor: Odourless

Melting point/Freezing point: 652°C

Boiling point or initial boiling point data is not available.

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point data is not available.



Auto-ignition temperature data is not available. Decomposition temperature data is not available. pH data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: 0.796g/100ml(20°C) n-Octanol/water partition coefficient data is not available. Vapor pressure data is not available. Density and/or relative density: 5.45(20°C) Relative vapor density (Air=1) data is not available. No Particle characteristics data is not available.

10. Stability and Reactivity

Reactivity
Not available.

Chemical stability

Turn color slowly by the light.

Possibility of hazardous reactions

Be formed by pyrolysis of silver oxide and sulfur oxide. React with metal powder may generate sulfurous odour gases.

Conditions to avoid

Contact with incompatible materials.
Contact with fire source.

Incompatible materials

Acids, Strong oxidizing agents, Metal powder

Hazardous decomposition products

Sulfur oxides, Silver oxide

11. Toxicological Information

Information on toxicological effects

Acute toxicity data is not available.

Irritant properties

Skin corrosion/irritation data is not available.

Serious eye damage/irritation data is not available.

Allergenic and sensitizing effects data is not available.

Mutagenic effects data is not available.

Carcinogenic effects data is not available.

Reproductive toxicity data is not available.

STOT

STOT-single exposure data is not available.

STOT-repeated exposure data is not available.

Aspiration hazard data is not available.

Additional data

May cause lung disorders by massive inhalation of powdered substance.

-e.g. fibrosis of lung tissue, cough, sputum, breath shortness, dyspnea, decline of lung function, interstitial lung disease, pneumothorax



12. Ecological Information
Ecotoxicity
Aquatic toxicity
Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects
Hazardous to the aquatic environment (Acute)
[GHS Cat. Japan, base data]
(Silver(I)sulfate)
Crustacea (Ceriodaphnia reticulata) EC50=0.0045mg/L/48hr (Aquire, 2003)
Persistence and degradability
Persistence and degradability data is not available.
Bioaccumulative potential
Bioaccumulative potential data is not available.
Mobility in soil
Mobility in soil data is not available.
Other adverse effects
Ozone depleting chemical data is not available.

13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging Waste treatment methods Avoid release to the environment (- if this is not the intended use).

Dispose of contents/container in accordance with local/national regulation.

14. Transport Information
UN No.: 3077
Proper Shipping Name :
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class or division : 9
Packing group : III
ERG GUIDE No.: 171
Special provisions No.: 274; 331; 335; 375
IMDG Code (International Maritime Dangerous Goods Regulations)
UN No.: 3077
Proper Shipping Name :
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class or division : 9
Packing group : III
Special provisions No.: 274; 335; 966; 967; 969
IATA Dangerous Goods Regulations
UN No.: 3077
Proper Shipping Name :
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Class or division : 9
Hazard labels : Miscellaneous & Environmentally hazardous
Packing group : III
Special provisions No.: A97; A158; A179; A197
Environmental hazards
MARPOL Annex III – Prevention of pollution by harmful substances
Marine pollutants (yes/no) : yes



MARPOL Annex V - Prevention of pollution by garbage discharge Hazardous to the aquatic environment - acute hazard: cat.1 Silver(I)sulfate Hazardous to the aquatic environment - long-term hazard: cat.1, 2 Silver(I)sulfate

15. Regulatory Information
 Safety, health and environmental regulations/legislation specific for the substance or mixture
 US Federal Regulations
 Chemicals listed in TSCA Inventory
 Silver(I)sulfate
 Other regulatory information
 Ensure this material in compliance with federal requirements and ensure conformity to local
 regulations.

16. Other information

GHS classification and labelling

Aquatic Acute 1: H400 Very toxic to aquatic life

Aquatic Chronic 1: H410 Very toxic to aquatic life with long lasting effects

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (7th revised edition, 2017), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN IMDG Code, 2018 Edition (Incorporating Amendment 39–18)

IATA Dangerous Goods Regulations (61th Edition) 2020

Classification, labelling and packaging of substances and mixtures (Table 3 ECNO6182012) 2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2020 TLVs and BEIs. (ACGIH)

http://monographs.iarc.fr/ENG/Classification/index.php

Supplier's data/information

General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2019).